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GOVERNMENT OF MADRAS.

Old Scott. II-28, New Scott. II-16—
71,006—28-1-55.

Public Works (1955) Department.

Endorsement
D.O.
Memorandum
Lodged

No. 50117 J/55.

Dated 20/6 1955.

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FURTHER PAPERS.

Department.	Number.	Series.	Date.

FOR MYSORE STATE

50117

Office of the Chief Engineer for Irrigation,
Chepauk, Madras 5.

Inspection notes of Sri U.Ananda Rao, B.E.,M.I.E. (Ind), M.Am.Soc. C.E. I.S.E., Chief Engineer for Irrigation.

SCHEMES IN KOLLEGAL
Dates of inspection 30th & 31st May 55

ASSISTANT SECRETARY TO ... 13 JUN 1955 PUBLIC WORKS DEPARTMENT

The following schemes were inspected at Kollegal.

1.Honahalla Anicut scheme.

The proposal is to construct an anicut (regulator across Honahalla) just below the Mysore territory to feed Hampapuram tank. Plans and estimates to an extent of Rs 8.25 lakhs have been prepared and submitted to Government for sanction. The proposal is to bring in 600 acres of direct ayacut together with 320 acres indirect under the tank. As there is a minimum flow of 15 cusecs, it is possible to irrigate 600 acres. This is a fit case to be taken up under the Special Minor Irrigation Programme and it may be recommended to Government accordingly.

2.Supply channel from Gundal

The supply channel from Doddarenganatham Anicut feeds the following tanks:

1. D.R.tank
2. Chickarenganatham tank
3. Kongankere
4. Mudikondam tank
5. Hampapuram tank

According to the previous proposal (vide scheme 1) supply will be given direct to Hampapuram tank from Honahalla. When this is done, Hampapuram tank could be detached from the chain of tanks mentioned above, with the result, all available supplies could be stopped with Mudikondam tank. So when the first scheme materialises automatically supplies to tanks 1 to 4 above will improve. The supply channel is badly silted. It does not appear that it can take the designed sicharge of 120 cusecs. The silt may be cleared under S.R. There is a proposal to widen and deepen the channel so that it may draw as much as possible during the flood seasons. The scheme may

may be pursued, if it does not affect the lower anicut. Anyhow, implication of the proposal may be studied further and reported on with plans and estimates in due course.

D.R.anicut is 45' long with calingula stones. To improve supply to D.R.channel, the space between calingula stones may be blocked and the crest of the anicut raised by 1 ft. Thus, removing silt from the supply channel and raising the crest of the anicut should considerably improve the supply in the supply channel.

3. Thattahalla scheme:

The proposal is to throw an earthen bund across Thattahalla river on the 3rd mile of Hanur-Kokanahalli road. No rock is seen anywhere and the site is suitable only for an earth dam. Surplus weir of the usual tank weir type will be provided at the left for surplus discharge. A surplus channel will have to be excavated from this weir to the river. However earth got from the surplus channel may be utilised on the tank bund. It is seen that the capacity has been limited to 120 M.cft.for an ayacut of 1000 acres. Flow in the river seems to have been gauged during 1944 to 46 and the yield is estimated as follows:-

1944	--	583 M.cft.
1945	--	499 M.cft.
1946	--	1350 M.cft.

In view of the large yield in the river it is desirable to increase the capacity, say, to about 200 M.cft. With 1½ fillings, it should be possible to irrigate, 3000 acres of dry land. The scheme seems to have been deferred by Government but orders were issued to carry on borings along the margins. Borings have since been completed. It is seen that lime kankar stone is found at a depth of about 15 ft. Good earth for impervious zone may have to be carted from a distance of 3 to 4 miles. Plenty of area is available for cultivation under the reservoir and the limiting factor seems to be the yield.

The main industry in Kollegal taluk is the cultivation of mulberry and rearing of silk cocoons. This seems

seems to be the cottage industry. It is therefore desirable to convert the scheme into a dry scheme and supply water to mulberry plantation. According to the information gathered from the sericultural expert, Kollegal, Mulberry requires water from January to middle of May at the rate of 1" for every 15 days. The yield of rain fed crop per acre per year is reported to be 3000 to 3500 lbs. of leaves. If the same area is irrigated the yield will be 5000 to 5,500 lbs. per year which means an extra yield of about 75% or extra yield of Rs 100 to 150 per acre per year. The ryots are willing to pay a water rate of Rs 9/- if water is given to the mulberry. It is therefore suggested that the scheme may be converted from wet irrigation to dry irrigation.

4. Gundal Reservoir scheme.

It is proposed to construct an earth dam across Gundal river at 2/4 of Gundal Valley Road, cutting off a catchment of about 34 sq.miles. The site is eminently suited for an earth dam. The proposal is to limit the capacity to 180 M.cft. and irrigate an area (new) 1400 acres in addition to the existing ayacut of 5,600 acres. Instead of increasing the wet cultivation, water for double the area under a dry crop (mulberry) may be given. Here also the scheme should be converted into a dry scheme. By converting the scheme into a dry scheme, not only the benefits of the Project will be spread over double the area, but the scheme may be made more remunerative, as the ryots are willing to pay a water rate of Rs 9/- or so per acre. They are not prepared to pay anything more than this, even if the scheme be wet.

T. V. Narayanamurthi. 10.6.53

for Chief Engineer for Irrigation.

Copy to the Secretary to Government, Public Works Department
" the Deputy Secretary (Ex.Officio) Agriculture (FP) department.
Copy to the Superintending Engineer, Coimbatore circle

P.W.D.

To A.S.

The C.E's notes of inspection on pp 1-5 ante may be perused.

Item 1. Honnahalla Anicut Scheme

The scheme is under consideration in the A(P.P) dept.

2. Supply channel from Gundal

The C.E's proposals when received may be dealt with separately

3. Thattahalla Scheme

The C.E. can be expected to submit the necessary proposals with plans & estimates, as soon as the investigation is completed & proposals are finalised.

4. Gundal reservoir Scheme

The C.C previously reported that this Scheme be dropped in view of high cost & poor return. But, as the Bdg Sec suggested a reinvestigation of the scheme on the basis of the reports of the Collr, a further report was

called for in the matter from the C.E. His report is awaited.

No action seems called for in this. May be lodged

Sr. 16.6.55 16.6.55

17/6/55

D.S. 20.6.55